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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/597,113	06/20/2000	Roy C. Challberg	24-AT-6005	5948	
7.	590 08/22/2003				
John S Beulick			EXAMINER		
Armstrong Tea Suite 2600	sdale LLP	KEITH, JACK W			
One Metropolit	an Square				
St Louis, MO		ART UNIT	PAPER NUMBER		
·			3641		
			DATE MAILED: 08/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No. 09/597,113

Applicant(s)

Challberg et al

Examiner

Jack Keith

Art Unit 3641



	The MAILING DATE of this communication appears of	on the cover sh	eet with	the correspondence address		
	for Reply					
THE N	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.					
- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.						
- If the p - If NO p - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply at to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) e application to becor	MONTHS fr	om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status						
1) 💢	Responsive to communication(s) filed on Jul 14, 20	003		•		
2a) 🗌	This action is <b>FINAL</b> . 2b)	on is non-final				
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) 1, 2, 4-6, 8-10, 12, and 13			is/are pending in the application.		
4	la) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 💢	Claim(s) 1, 2, 4-6, 8-10, 12, and 13			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 🗆	Claims	are	subject	to restriction and/or election requirement.		
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) 🗆 accepte	d or b)	$\square$ objected to by the Examiner.		
	Applicant may not request that any objection to the di	rawing(s) be he	ld in abe	yance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is:	a) 🗆 a	pproved b) $\square$ disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	o this Office ac	tion.			
12)	The oath or declaration is objected to by the Examin	ner.				
Priority under 35 U.S.C. §§ 119 and 120						
13) 🗌	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) 🗆	☐ All b)☐ Some* c)☐ None of:					
	1. $\square$ Certified copies of the priority documents have	e been receive	d.			
	2.  Certified copies of the priority documents have	e been receive	d in App	lication No		
	<ol> <li>Copies of the certified copies of the priority do application from the International Burea</li> </ol>	au (PCT Rule 1	7.2(a)).	-		
	ee the attached detailed Office action for a list of the					
14)└	Acknowledgement is made of a claim for domestic					
a) U The translation of the foreign language provisional application has been received.						
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachm	• •	4) The second	mma (DTC	A13) Pener No/a)		
	ntice of References Cited (PTO-892)  Stice of Draftsperson's Patent Drawing Review (PTO-948)		-	0-413) Paper No(s)		
_	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)  3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:					
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#### **DETAILED ACTION**

#### Request for Continued Examination

1. The request filed on 7/14/2003 for a Request for Continued Examination (RCE) under 37 CFR 1.114 based on parent Application No. 09/597,113 is acceptable and a RCE has been established. An action on the RCE follows.

### Response to Arguments

2. Applicant's arguments filed 7/14/2003 have been fully considered.

Applicant's arguments stem from either Hiraiwa or Kusuno disclosing a fuel assembly consisting of four mini fuel bundles and applicant's invention having separate independent fuel bundles (i.e., not mini-bundles).

This argument is not persuasive. While applicant is trying to define his invention in relation to conventional BWR fuel assemblies the broad nature of the claims allows for the minibundle assemblies of Hiraiwa or Kusuno to read on applicant's invention.

For instance, claim 1, line 2 "a plurality of separate independent fuel bundles" this reads on the mini bundles with the teachings provided by Taleyarkhan (i.e., separate independent fuel bundles). Claim 1, line 6 "four fuel bundle receiving channels" this limitation still reads on either Hiraiwa or Kusuno as each blade of the control rod contains one fuel bundle, albeit, the fuel bundle in question contains four mini-bundles within it. Nevertheless Hiraiwa or Kusuno

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still read on applicant's invention. Applicant's amendment to the claims does not preclude minibundles from being utilized.

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The 103 rejection of Paper no. 16 are herein incorporated by reference.

#### Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack Keith whose telephone number is (703) 306-5752. The examiner can normally be reached on Monday through Friday from 7:00 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone, can be reached on (703) 306-4198.

The fax phone number for the organization where this application or the proceeding is assigned is (703) 305-7687. Fax number for submittals before Final is (703) 872-9326, After Final is (703) 872-9327 and customer service is (703) 872-9325.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

Jack Keith Examiner, Art Unit 3641

jwk

August 20, 2003